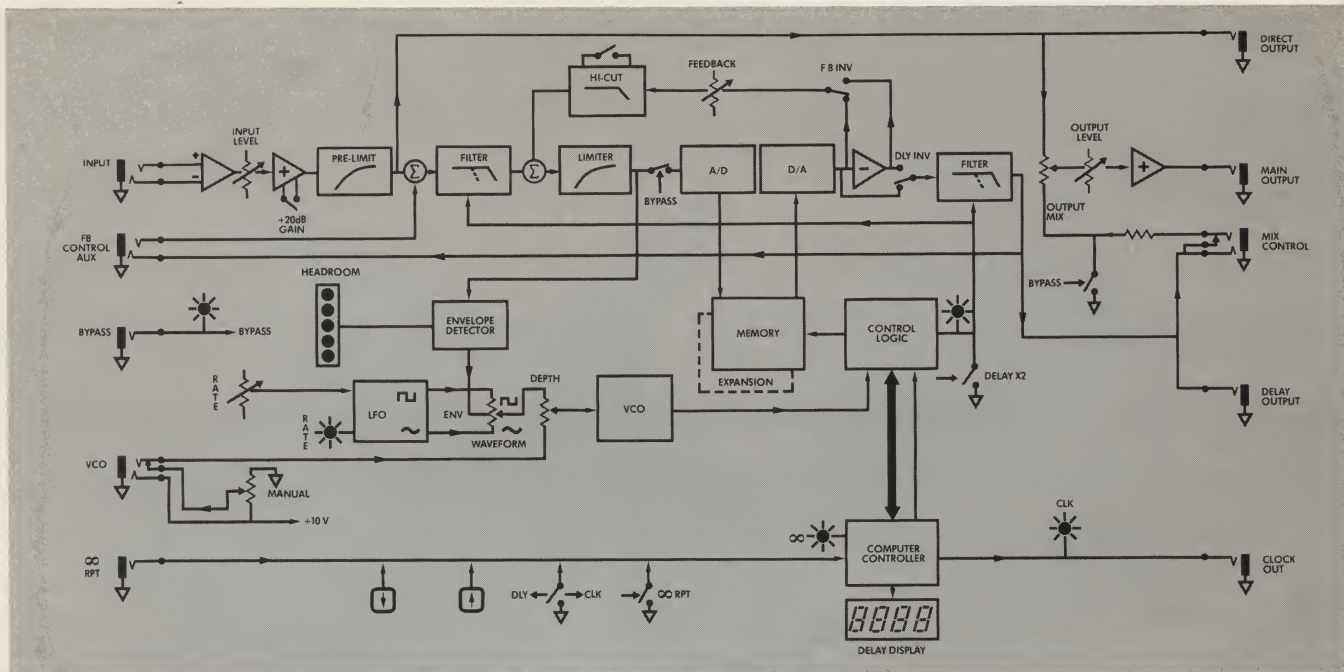


The
adventure
continues....



lexicon



Wiring diagram

Specifications

Total Distortion and Noise

0.06% typical, 0.10% maximum @ 1 kHz

Frequency Response

x1 mode: 20 Hz to 16 kHz, +1 dB, -3 dB

x2 mode: 20 Hz to 6 kHz, +1 dB, -3 dB

Dynamic Range

Better than 90 dB, DIN weighted

Delay Capacity

1200 ms standard memory, 16 kHz

2400 ms standard memory, 6 kHz

2400 ms extended memory, 16 kHz

4800 ms extended memory, 6 kHz

Input Type

Electronically balanced, tip-ring-sleeve phone jack,
40 dB Common Mode Rejection

Input Impedance

40 kilohms, balanced or unbalanced into Main input
20 kilohms, unbalanced into Mix or Recirculation
Control inputs

Input Level

-12 dBV to +20 dBV (peak levels)

Input Limiting

The audio input is subject to two step compression-limiting. At 3 dB below converter overload, the input stage begins to compress at a ratio of 5:1. Just below converter overload, the input level is hard limited (infinity: 1 ratio)

Output Type

Single-ended, phone jack

Output Level

Main Output: Up to +18 dBV, adjustable into a 600 ohm load

Direct and Delay Out: +12 dBV at full input level into a 2 kilohm load

Power

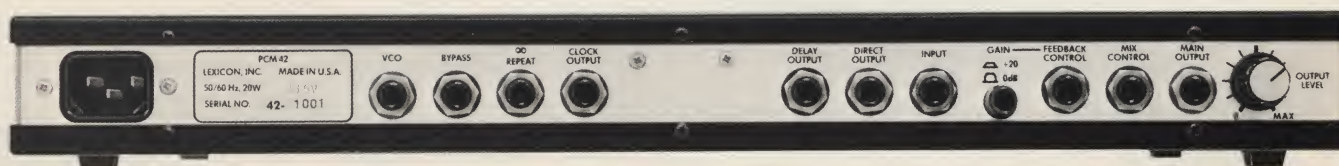
115 or 230 volts (selectable), 50-60 Hz,
20 watts maximum

Dimensions

Standard 19" rack mount, 1 3/4" high by 11" deep
(483 x 44 x 280 mm)

Weight

Net 5.5 lbs (2.5 kg); shipping 8 lbs (3.6 kg)



All specifications subject to change without notice

Lexicon

60 Turner Street, Waltham, Massachusetts 02154

(617) 891-6790 TELEX 92 3468

Export: Gotham Export Corporation, New York, NY

LEXICON PCM-42

The newest member of the Lexicon PCM series of stage/studio products, the PCM-42 combines Lexicon's established performance and rugged reliability with advanced features for today's musician. Unique in concept and execution, the Lexicon PCM-42 performs all of the functions you would expect of a high quality digital delay line, while opening the door to realms of musical expression that were only a dream before now.

Imagine being able to overdub entire phrases of music, vocal or instrumental, layer upon layer, into complex arrangements **IN REAL TIME!** Imagine a device that lets you lock delay times precisely to musical tempos for rhythmic and expressive enhancements. Imagine an unprecedented degree of footpedal control for live performance. Imagine a delay line that can not be audibly overloaded. Imagine a numeric display that tells you the EXACT delay time at any instant.

Now imagine all of this in a unit with the superior, field-proven audio quality and the established reliability of the Lexicon PCM product series, backed by the resources and reputation of the world leader in digital audio processing, and you'll be imagining the Lexicon PCM-42, the cutting edge of music technology.

PCM-42: innovation from a solid base

The PCM-42 incorporates all of the innovative features that have made the PCM series the top performing delay lines on the market today: studio quality PCM (pulse-code-modulation) encoding for super clean audio; multi-waveform sweeps for realistic vocal doubling, rich chorusing, and unique effects; reliability and excellence of construction that have long been PCM series hallmarks. The Lexicon PCM-41 is the world standard in cost-effective, roadable delay processors and the PCM-42 builds on this tradition. The 42 adds many new, sophisticated features including very long delay capacity and synchronizing metronome/clock, bringing totally new possibilities to the performing artist.

Long delays for creative applications

The PCM-42 combines a delay capacity of up to 4.8 seconds (with memory option) with a unique programmable metronome/clock, infinite repeat/hold, and special foot controls to bring new possibilities in musical expression. Use the delay memory as a short term "digital recorder" to enter entire phrases of music (as much as eight bars!) which will repeat indefinitely without degradation. Use the repeating phrases as background to lead parts, and dub any number of new parts in at will, to generate complicated, multi-layered arrangements LIVE, on-stage from even the simplest of inputs.

New clock output

The metronome/clock feature provides the means to synchronize tempo with long delay periods. Settable for a variety of fractional divisions of the delay period, it may be used as a visible/audible metronome, or as a clock for many automatic sequencers and percussion units, driving these rhythmic devices in precise synchrony with the delay period.

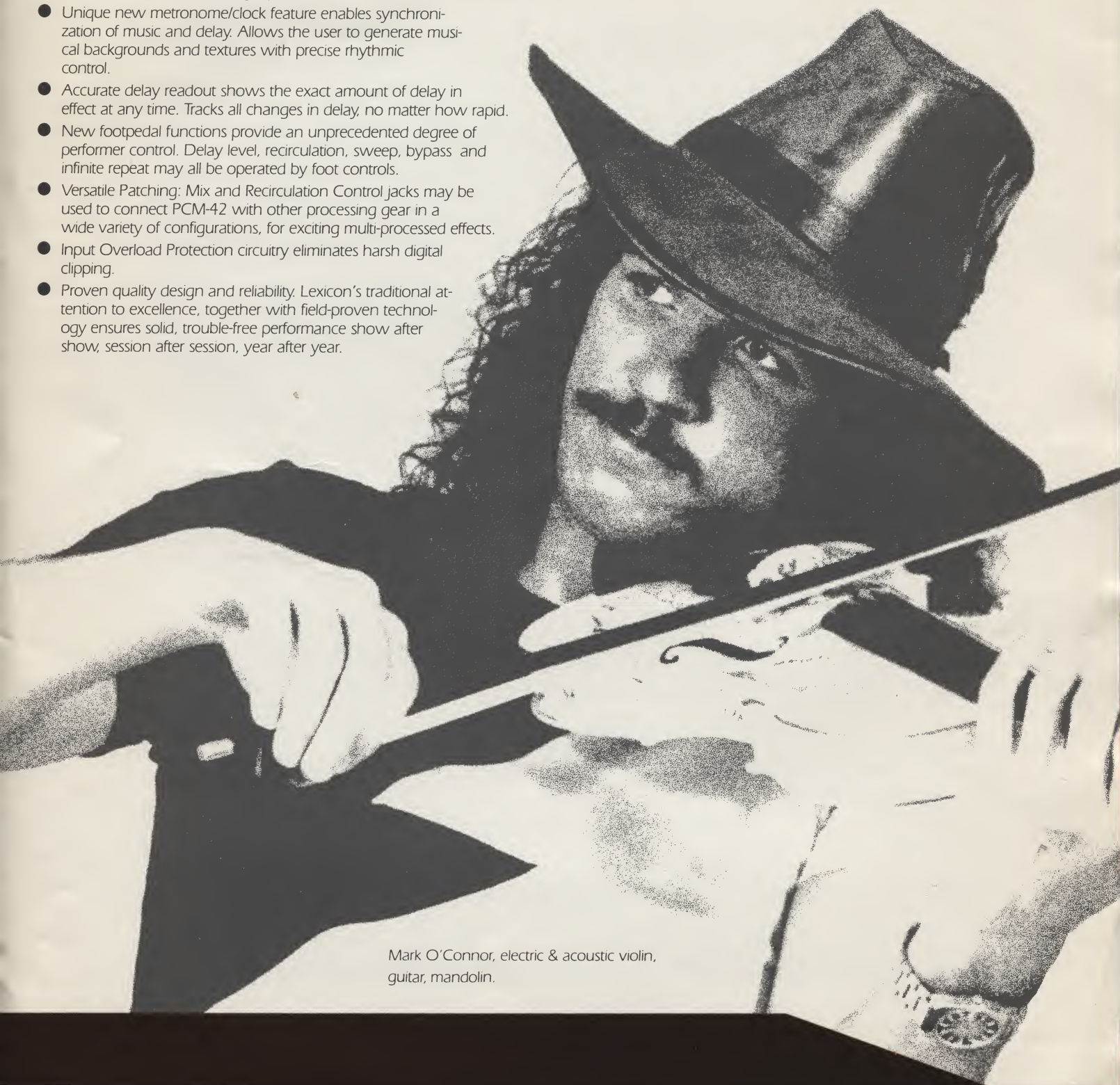
Unmatched versatility

Two new control/input jacks, together with VCO, Bypass, and Repeat inputs, provide the means to control all of this power conveniently on stage. The Mix Control input allows smooth foot-pedal variation of the delay level. The Recirculation Control adjusts the amount of delayed audio fed back to the input for multiple repeats. These jacks also serve as auxiliary inputs to connect to other delay lines, equalizers, reverberators, etc.



Features:

- Super long delay times for new dimensions in music. Up to 4.8 seconds with memory option.
- Unique new metronome/clock feature enables synchronization of music and delay. Allows the user to generate musical backgrounds and textures with precise rhythmic control.
- Accurate delay readout shows the exact amount of delay in effect at any time. Tracks all changes in delay, no matter how rapid.
- New footpedal functions provide an unprecedented degree of performer control. Delay level, recirculation, sweep, bypass and infinite repeat may all be operated by foot controls.
- Versatile Patching: Mix and Recirculation Control jacks may be used to connect PCM-42 with other processing gear in a wide variety of configurations, for exciting multi-processed effects.
- Input Overload Protection circuitry eliminates harsh digital clipping.
- Proven quality design and reliability. Lexicon's traditional attention to excellence, together with field-proven technology ensures solid, trouble-free performance show after show, session after session, year after year.



Mark O'Connor, electric & acoustic violin,
guitar, mandolin.

